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Waste disposal with a system

The cyclone / chip separator from the HR-D/V-D series

The Deltoid cyclone / chip separator is available in graded sizes. It is used anywhere where dust and chips accrue from the machining and processing of aluminium, metal and plastic.

Construction and design can be adapted individually to the respective intended use.

The cyclone separator consists of a rotationally symmetrical housing upper part with tangential inlet spiral, the immersion pipe and the conical lower part. The separated production waste can be fed underneath the cyclone into a briquetting press, a press container, a chip bucket or similar.

Due to the simple structure and robust construction, it can be used problem-free, at low operating costs and maintenance, in long term operation almost everywhere.

Depending on the required clean gas values, a filter unit can be installed downstream. The sucked up air can therefore be returned into the working area.

The cyclone is also available in stainless steel or in wear protected design.

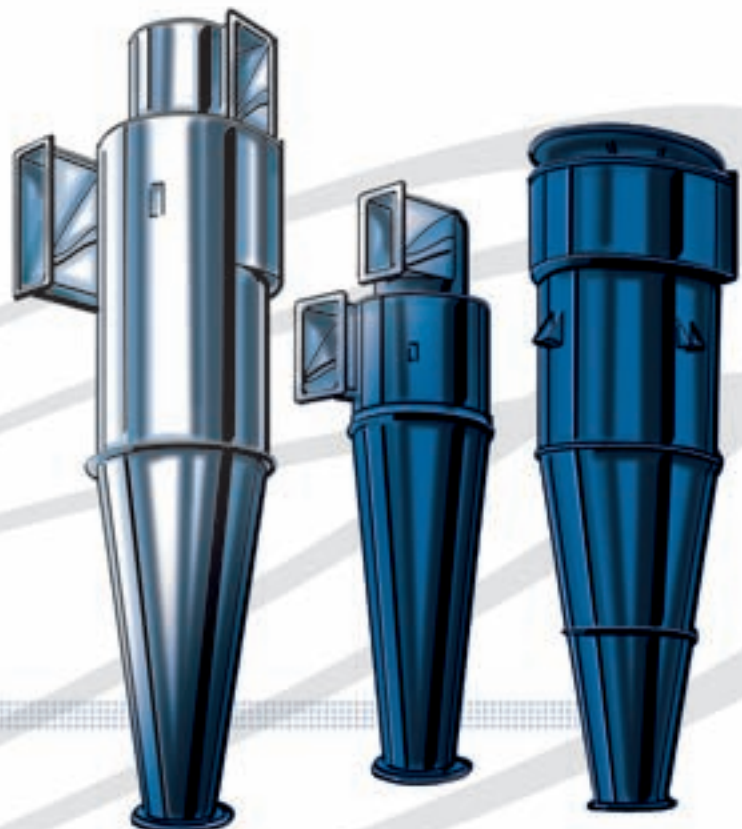
***Deltoid cyclone separator
from the HR-DIV-D series.
Designed for problem-free
long term operation.***

For chip extraction on:

- Milling machines
- Lathes
- Circular saws, belt saws
- Plate edge milling machines
- Boring mill
- Planers
etc.

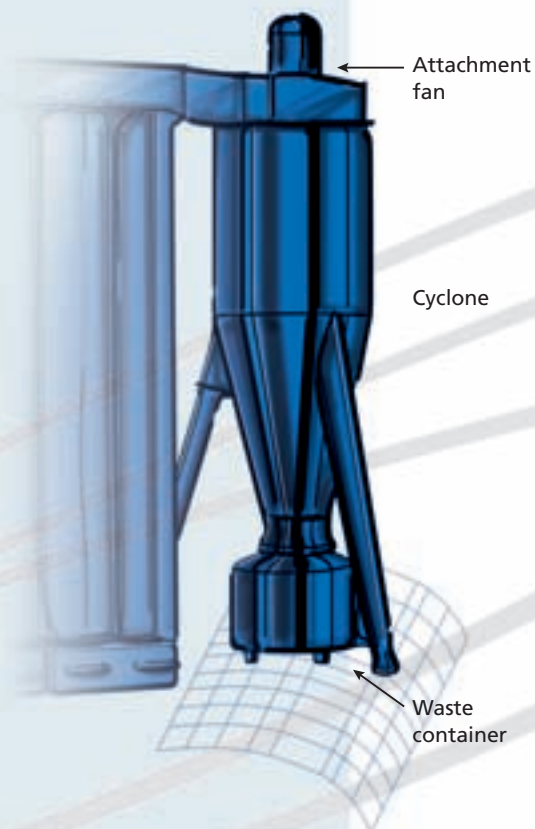
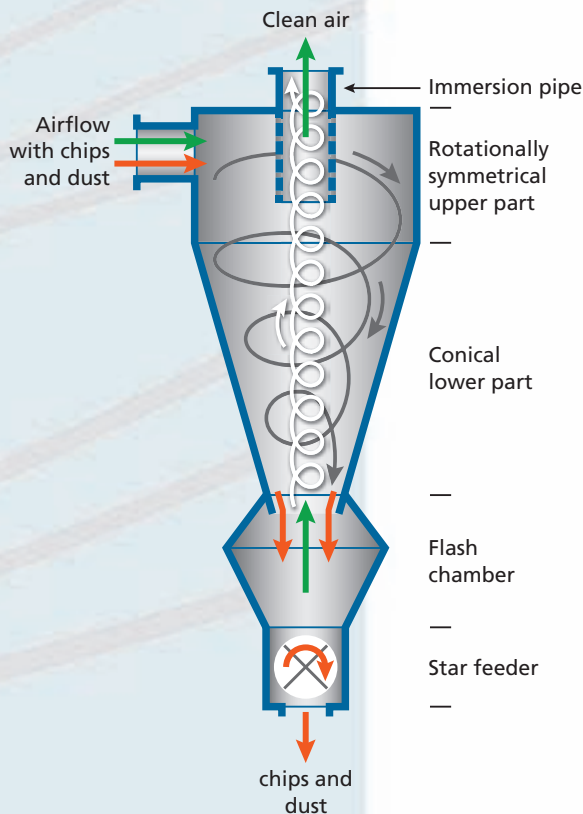
For dust extraction on:

- Billet grinding machine
- Bagging machine
- Bucket elevators
- Silo outlets
- Grinding and separating
machines etc.



The cyclone separator from the HR-D/V-D series

The cyclone functional principle:



Functioning of the cyclone / chip separator

Flow course, extraction and return of air

The air flow which is full of chips and dust is fed tangentially upwards to the rotationally symmetrical separator chamber and flows spirally downwards in this chamber. With the same direction of rotation, the air is redirected inwards and upwards. It leaves the cyclone into the open through the centrally positioned immersion pipe (see figure left).

Chips and dust are carried to the outer wall of the cyclone by the effect of the centrifugal force and deposited below by the force of gravity.

The deposited waste is collected in an integrated waste container underneath the cyclone.

Depending on purity level requirements, the sucked up air can be returned into the working area. Alternatively, simple filter sacks or automatically cleaning filter units can be installed downstream.

The advantages of the cyclone-chip separator at a glance

- Can deal with large quantities of air
- Wide range of use due to robust construction
- Low space requirements due to compact design
- Continual cleaning for uninterrupted operation
- Easy to maintain
- High operational availability
- Low operating costs
- High degree of working safety



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